

PATENT

Attorney Docket No. 020552—001410US  
[Client Ref. No. 1029.1]

**NOVEL MOTOR PROTEINS AND METHODS FOR THEIR USE**

**ABSTRACT OF THE DISCLOSURE**

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The invention provides isolated nucleic acid and amino acid sequences of HsKip3, antibodies to HsKip3, methods of screening for HsKip3a modulators using biologically active HsKip3, and kits for screening for HsKip3a modulators.